

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br>AMN.P0005PCT | <b>FOR FURTHER ACTION</b>   | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |
| International application No.<br>PCT/US04/12583       | International filing date ( <i>day/month/year</i> )<br>23 April 2004 (23.04.2004) | (Earliest) Priority Date ( <i>day/month/year</i> )<br>24 April 2003 (24.04.2003)  |
| Applicant<br>ALPHAMICRON, INC.                        |   |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the Report**
  - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
    - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
  - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
    - contained in the international application in written form.
    - filed together with the international application in computer readable form.
    - furnished subsequently to this Authority in written form.
    - furnished subsequently to this Authority in computer readable form.
    - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
    - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
2.  Certain claims were found unsearchable (See Box I).
3.  Unity of invention is lacking (See Box II).
4. With regard to the title,
  - the text is approved as submitted by the applicant.
  - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - the text is approved as submitted by the applicant.
  - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No. 1
  - as suggested by the applicant.
  - because the applicant failed to suggest a figure.
  - because this figure better characterizes the invention.

None of the figures

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/12583

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G02F 1/13  
US CL : 349/13,77,138

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 349/13,77,138

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 5,532,705 A (Hama) 02 July 1996 (02.07.1996); Figs. 1A, 1B, 2 and 3; col. 6, line 27 through col. 7, line 21.  | 1-5 and 21            |
| Y          | US 6,239,778 B1 (Palffy-Muhoray et al.) 29 May 2001 (29.05.2001); Figs. 1A, 1B and 2; col. 2, lines 23-37 and line 55 through col. 3, line 30; col. 4, lines 15-52; and col. 5, lines 31-57). | 6-13 and 24           |
| Y          | US 5,148,297 A (Ishii et al.) 15 September 1992 (15.09.1992); Figs. 4, 7 and 8; col. 4, lines 54-65; col. 5, lines 46-59; and col. 6, lines 10-13.  | 6, 7, 9 and 12-20     |
| Y          | US 6,001,486 A (Varaprasad et al.) 14 December 1999 (14.12.1999); col. 2, lines 13-19 and col. 9, lines 46-48.  | 15, 17 and 23         |
| Y          | US 6,466,298 B1 (Fix et al.) 15 October 2002 (15.10.2002), col. 11, lines 1-24.   | 15-17, 22 and 23      |



Further documents are listed in the continuation of Box C.



See patent family annex.

|   |     |  |
|---|-----|--|
| * Special categories of cited documents:  | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "E" earlier application or patent published on or after the international filing date   | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" | document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |     |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |     |  |

Date of the actual completion of the international search

26 August 2004 (26.08.2004)

Date of mailing of the international search report

**09 MAR 2005**

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Form PCT/ISA/210 (second sheet) (July 1993)

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**INTERNATIONAL SEARCH REPORT****C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.   |
|------------|---|-------------------------|
| X          | US 5,943,104 (Moddel et al.) 24 August 1999 (24.08.1999); Figs. 1, 3A, 3B and 6; col. 1, lines 49-64; col. 5, lines 36-52; col. 8, line 63 through col. 9, line 18. | 1,2,6-9,12,13 and 18-20 |
| Y          | US 4,106,217 (Witt) 15 August 1978 (15.08.1978), Fig. 3 and col. 5, lines 4-14.   | 14                      |

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